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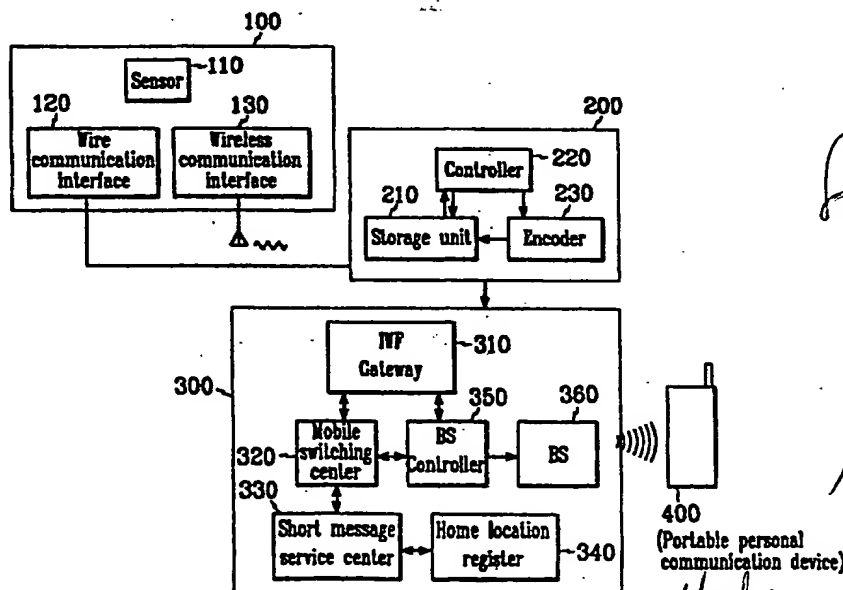
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(54) Title: SECURITY SYSTEM AND METHOD USING MOBILE COMMUNICATION NETWORK



(57) Abstract: Disclosed is a security system using a mobile communication network that includes a camera for picking up an image of a designated area, a server connected to the camera and the network for converting the image received from the camera to a proper format and storing the converted image, and a portable personal communication device for operating a built-in web browser to access the server and downloading video signals from the server to check the image of the designated area; and a security method using a mobile communication network in which a camera picks up an image of a designated area to check security of the designated area.

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WHAT IS CLAIMED IS:

1. A security system using a mobile communication network,
comprising:

a camera for picking up an image of a designated area;

5 a server connected to the camera and the network for converting the
image received from the camera to a proper format and storing the
converted image; and

a portable personal communication device for operating a built-in
web browser to access the server and downloading video signals from the
10 server to check the image of the designated area.

2. The security system as claimed in claim 1, wherein the portable
personal communication device operates the built-in web browser to access
the server and receives the image of the designated area in real time.

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3. The security system as claimed in claim 1, further comprising a
mobile communication network for allowing the portable personal
communication device to access the server and establishing a transmission
path of the video signals,

20 wherein upon detection of an emergency at the designated area, the
server sends a text message over the mobile communication network to
inform of the emergency at the designated area.

4. The security system as claimed in claim 3, wherein upon detection of the emergency at the designated area from the received text message, the portable personal communication device gives an access to the server to download the stored video signals generated during the emergency from the server and check security of the designated area.

5. The security system as claimed in claim 1, wherein the server converts the image received from the camera in a format including moving picture expert group (MPEG), joint photographic expert group (JPEG), wavelet, or Internet streaming.

6. The security system as claimed in claim 1, wherein the portable personal communication device is a personal digital assistant (PDA), a cellular phone, or an IMT-2000 terminal.

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7. A security method using a mobile communication network, in which a camera picks up an image of a designated area to check security of the designated area, the method comprising the steps of:

(a) a server receiving video signals from the camera over a network established between the camera and the server and converting them to a proper image format;

(b) causing a user of a portable personal communication device to operate a built-in web browser of the portable personal communication

device and access the server over the mobile communication network;

(c) the portable personal communication device downloading the converted video signals from the server over the mobile communication network; and

5 (d) displaying the video signals on the portable personal communication device for the user of the portable personal communication device to check the image of the designated area.

8. The security method as claimed in claim 7, further comprising the
10 step of (e) storing the converted video signals in the server after the step (a).

9. The security method as claimed in claim 7, further comprising the step (f) of the server sending a text message to the portable personal communication device over the mobile communication network to inform of
15 an emergency at the designated area, upon detection of the emergency from the video signals of the camera, after the step (a).

10. The security method as claimed in claim 9, wherein the portable personal communication device gives an access to the server in step (b)
20 after receiving the text message from the server in the step (f).

11. The security method as claimed in claim 10, wherein in the step (c), the portable personal communication device downloads stored video

signals generated during the emergency from the server, or real-time video signals from the camera.

12. The security method as claimed in claim 7, wherein the proper
5 image format in the step (a) is MPEG, JPEG, wavelet, or Internet streaming.

13. The security method as claimed in claim 7, wherein the step (d)
includes the step (g) of decoding the video signals converted to the proper
image format.

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14. The security method as claimed in claim 7, wherein the portable
personal communication device is a PDA, a cellular phone or an IMT-2000
terminal.